

This listing of claims will replace all prior versions,
and listings, of claims in the application:

Claims 1-10 (canceled)

1 Claim 11 (currently amended): Sensor for transmission
2 measurement in a washing machine or dishwasher, the
3 sensor comprising ~~[[with]]~~:
4 - a carrier ~~[[+2, 104],]~~ to which
5 ~~[[+]]~~ a transmitter ~~[[+4, 106],]~~ is attached ~~[[to~~
6 ~~the carrier (2, 104) to emit]]~~ for emitting a
7 transmitter beam ~~[[+8],]~~, and to which
8 ~~[[+]]~~ a receiver ~~[[+6, 108],]~~ is attached ~~[[to the~~
9 ~~carrier (2, 104),]~~ to receive ~~[[the beam~~
10 ~~generated by]]~~ radiation from the transmitter
11 ~~[[+4, 106],]~~, wherein the carrier comprises a
12 first leg to which the transmitter is attached
13 and a second leg to which the receiver is
14 attached opposite the transmitter, and
15 - a diaphragm system ~~[[+12, 128],]~~ arranged ~~[[on]]~~
16 separate from the carrier ~~[[+2, 104],]~~ and spaced
17 from the transmitter ~~[[+4, 106],]~~, the diaphragm
18 system comprising a diaphragm opening ~~[[with a~~
19 ~~transmitter diaphragm (14, 130),]~~ arranged in
20 ~~[[the beam]]~~ a path of the transmitter beam in
21 order to generate a measurement beam ~~[[+18]~~
22 ~~aligned]]~~ directed to the receiver ~~[[+6, 108],]~~.

1 Claim 12 (currently amended): Sensor for transmission
2 measurement in a washing machine or dishwasher, the
3 sensor comprising ~~[[with]]~~:
4 - a carrier ~~[[+2, 104],]~~ to which

5 [[-]] a transmitter [[(4, 106)]] is attached [[~~to~~
 6 ~~the carrier (2, 104) to emit~~]] for emitting a
 7 transmitter beam [[(8)]]], and to which
 8 [[-]] a receiver [[(6, 108)]] is attached [[~~to the~~
 9 ~~carrier (2, 104)~~]] to receive [[~~the beam generated~~
 10 ~~by~~]] radiation from the transmitter [[(4, 106)]]],
 11 wherein the carrier comprises a first leg to which
 12 the transmitter is attached and a second leg to
 13 which the receiver is attached opposite the
 14 transmitter, and
 15 - a diaphragm system [[(12, 128)]] arranged [[~~on~~]]
 16 separate from the carrier [[(2, 104)]] and spaced
 17 from the receiver [[(6, 108)]]], wherein the
 18 diaphragm system comprises [[~~with~~]] a [[~~receiver~~]]
 19 diaphragm opening [[(16, 132)]] arranged in [[~~the~~
 20 ~~beam~~]] a path of the transmitter beam [[(8)]] to
 21 generate a reception beam aligned to the receiver
 22 [[(6, 108)]]].

1 Claim 13 (currently amended): Sensor for transmission
 2 measurement in a washing machine or dishwasher, the
 3 sensor comprising [[~~with~~]]:
 4 - a carrier [[(2, 104) 7]] to which
 5 [[-]] a transmitter [[(4, 106)]] is attached [[~~to~~
 6 ~~the carrier (2, 104) to emit~~]] for emitting a
 7 transmitter beam [[(8)]]], and to which
 8 [[-]] a receiver [[(6, 108)]] is attached [[~~to the~~
 9 ~~carrier (2, 104)~~]] to receive [[~~the beam generated~~
 10 ~~by~~]] radiation from the transmitter [[(4, 106)]]],
 11 wherein the carrier comprises a first leg to which
 12 the transmitter is attached and a second leg to

13 which the receiver is attached opposite the
14 transmitter, and
15 - a diaphragm system ~~[[12, 128]]~~ arranged ~~[[on]]~~
16 separate from the carrier [[2, 104]] and spaced
17 from the transmitter [[4, 106]] and the receiver
18 [[6, 108]], the diaphragm system comprising
19 [[with]] a [[transmitter]] first diaphragm [[14,
20 130) arranged]] opening in the beam path of the
21 transmitter beam [[8]] to generate a measurement
22 beam [[18]] aligned to the receiver, and
23 [[with]] comprising a [[receiver]] second
24 diaphragm opening [[16, 132) arranged]] in [[the
25 beam]] a path of the [[measurement]] transmitter
26 beam [[18]] to generate a reception beam aligned
27 to the receiver [[6, 108]].

Claim 14 (canceled)

1 Claim 15 (currently amended): Sensor according to claim
2 11, ~~[[in which the carrier (2, 104) comprises legs~~
3 ~~114, 116) which]]~~ wherein the first and second legs
4 are of different lengths, [[and]] the sensor further
5 comprising a temperature sensor arranged on [[the]]
6 a free end [[120]] of the longer leg [[116]] of
7 the carrier [[2, 104) is arranged a temperature
8 sensor 122]].

Claims 16 and 17 (canceled)

1 Claim 18 (currently amended): Sensor according to claim
2 12, ~~[[in which the carrier (2, 104) comprises]]~~
3 wherein the first and second legs [[114, 116]

4 ~~which]]~~ are of different lengths, the sensor further
5 comprising a temperature sensor arranged ~~[[and]]~~ on
6 a ~~[[the]]~~ free end ~~[[+120+]]~~ of the longer leg
7 ~~[[+116+]]~~ of the carrier ~~[[+2, 104) is arranged a~~
8 ~~temperature sensor +122+]]~~.

Claims 19 and 20 (canceled)

1 Claim 21 (currently amended): Sensor according to claim
2 13, ~~[[in which the carrier +2, 104) comprises]]~~
3 wherein the first and second legs ~~[[+114, 116+]]~~
4 ~~[[which]]~~ are of different lengths, [[and]] the
5 sensor further comprising a temperature sensor
6 arranged on ~~[[the]]~~ a free end ~~[[+120+]]~~ of the
7 longer leg ~~[[+116+]]~~ of the carrier ~~[[+2, 104) is~~
8 ~~arranged a temperature sensor +122+]]~~.

Claims 22-26 (canceled)

1 Claim 27 (new): The sensor of claim 13 wherein a spacing
2 between the first diaphragm opening and second
3 diaphragm opening of the diaphragm system is
4 greater than the space between the diaphragm
5 system and the transmitter.

1 Claim 28 (new): The sensor of claim 13 wherein a spacing
2 between the first diaphragm opening and second
3 diaphragm opening of the diaphragm system is
4 greater than the space between the diaphragm
5 system and the receiver.

1 Claim 29 (new): The sensor of claim 11 wherein the
2 transmitter has a main lobe and wherein the
3 diaphragm system screens at least some areas of
4 the main lobe.

1 Claim 30 (new): The sensor of claim 12 wherein the
2 receiver has a main lobe and wherein the diaphragm
3 system screens at least some areas of the main
4 lobe..

1 Claim 31 (new): The sensor of claim 13 wherein the
2 transmitter has a first main lobe, receiver has a
3 second main lobe, and the diaphragm system screens
4 at least some areas of both the first main lobe of
5 the transmitter and the second main lobe of the
6 receiver.